

CP9125 OBD II PocketScan™ Code Reader

For use with OBD II Compliant Vehicles



- (1) LCD Display Is a Single Line Display with 8 characters.
- 2 ERASE Key Used to Erase Trouble Codes and I/M Monitor status from Vehicle's Computer Modules and scroll up through screens. (I/M Monitors are currently used for state emissions tests.)
- (3) READ/Scroll Down Key Used to view Read Codes, MIL Status, I/M Readiness Status and Scroll down through screens.
- **OBD II Connector -** Used to communicate with OBD II compliant vehicles.

0002-003-2666

Safety Precautions

For safety, read, understand and follow all safety messages and instructions in manual before operating the PocketScan™ Code Reader.

Always refer to and follow safety messages and test procedures provided by manufacturer of vehicle and PocketScan[™] Code Reader.

Signal Words Used:

A DANGER Indicates a possible hazardous situation which, if not avoided, will result in death or serious injury to operator or bystanders.

WARNING

Indicates a possible hazardous situation which, if not avoided, could result in death or serious injury to operator or bystanders.

ACAUTION

Indicates a possible hazardous situation which, if not avoided, may result in moderate or minor injury to operator or bystanders.

IMPORTANT

Indicates a condition which, if not avoided, may result in damage to test equipment or vehicle.

Important Safety Messages

- Always wear ANSI approved eye protection.
- Always operate vehicle in a well-ventilated area.
- Always keep people, tools and test equipment away from all moving or hot engine parts.
- Always make sure vehicle is in PARK (automatic transmission) or Neutral (manual transmission) and parking brake is set.
- · Always block drive wheels and never leave vehicle unattended while testing.
- Always keep a fire extinguisher suitable for gasoline/ electrical/chemical fires readily available.
- Never lay tools on vehicle battery.

- Always use caution when working around ignition coil, distributor cap, ignition wires, and spark plugs. Components can produce a High Voltage while engine is running.
- Battery acid is caustic. If contacted, rinse with water or neutralize with a mild base (i.e. baking soda). If in eyes, flush with water and call a physician immediately.
- Never smoke or have open flames near vehicle. Vapors from gasoline and battery during charge are explosive.
- Never use the PocketScan[™] Code Reader if internal circuitry has been exposed to moisture. Internal shorts could cause a fire and damage.
- Always turn ignition key OFF when connecting or disconnecting electrical components, unless otherwise instructed.
- Some vehicles are equipped with safety air bags. Follow vehicle service manual cautions when working around air bag components or wiring. Note, air bag can still open several minutes after ignition key is off.
- Always follow vehicle manufacturer's warnings, cautions and service procedures.

PocketScan[™] Code Reader Features

Read Codes:

Reading Diagnostic Trouble Codes allows the PocketScan[™] Code Reader to read the codes from the vehicle's computer modules.

- Diagnostic Trouble Codes:
 Diagnostic Trouble Codes are
 used to help determine the cause
 of a problem or problems with a
 vehicle. Diagnostic Trouble Codes are set when a fault is
 present for a sufficient amount of time.
- Pending Codes: Pending
 Codes are also referred to as
 "continuous monitor codes" and
 "maturing codes." Pending
 Codes occurs when the code
 has not occurred a specific
 number of times (depending on
 vehicle,) causing the code to mature.

MIL Conditions:

MIL (Malfunction Indicator Lamp) Status displays the state of the vehicles computer module(s).

 MIL ON: Indicates that the Malfunction Indicator Lamp on vehicle should be ON indicating a possible emissions problem.



- √ If the MIL Status is ON and the MIL is not illuminated with the engine running, then a problem exists in the MIL circuit.
- MIL OFF: Indicates the Malfunction Indicator Lamp should be off and there should be no emission problems.



- √ Some manufacturers will turn the MIL off if a certain number of drive cycles occur without the same fault being detected.
- √ Diagnostic Trouble Codes related to a MIL are erased from the computer's memory after 40 warm-up cycles if the same fault is not detected.

Inspection / Maintenance Monitors (I/M Monitors):

The **I/M Monitors** (Inspection / Maintenance) function displays a **SNAPSHOT** of the operations for the Emission System.

- After a specific amount of drive time (each monitor has specific driving conditions and time required), the computer's "monitors" will decide if the vehicles emission system is working correctly.
- √ Some states MAY NOT require all monitors listed to be "Ready" to pass the emissions test. Check with state testing site for exact requirements. All states will fail a vehicle that has the "MIL Light" lit at time of test.

• Monitors Viewed:

Monitors	Expanded Name		
Misfire	Misfire Monitor		
Fuel	Fuel System Monitor		
Comp	Comprehensive Components Monito		
Catlyst	Catalyst Monitor		
Htd Cat	Heated Catalyst Monitor		
Evap	Evaporative System Monitor		
Sec Air	Secondary Air System Monitor		
A/C	Air Conditioning Refrigerant Monitor		
O2 Snsr	Oxygen Sensor Monitor		
O2 Htr	Oxygen Sensor Heater Monitor		
EGR	Exhaust Gas Recirculation		

Monitor Status:

Status	Description
	Vehicle was driven enough under proper conditions to complete the monitor.
	(Incomplete) - Vehicle was not driven enough under proper conditions to complete the monitor.

• Monitors may be cleared by:

- Using the erase codes function.
- Disconnected or discharged battery (on some vehicles.)
- Computer module losing power (on some vehicles.)

Reading Diagnostic Trouble Codes and Data

▲WARNING

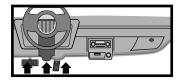
Avoid Cooling Fan! Fan may turn on during test.

1. Turn Ignition Key to the Off Position.



2. Locate and Plug in Data Link Connector (DLC.)

NOTE: The data link connector should be located under the dashboard on the driverside of the vehicle.



If the data link connector is not located under the dashboard as stated, a label describing the location of the data link connector should be there.

3. Observe Display toggles between "Pocket" and "Scan".



NOTE: For a correct reading for

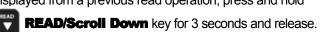
Diagnostic Trouble Codes and I/M Monitor Status, ignition key must be in the ON position and Engine does not require starting.

To get a correct reading for MIL Status, Engine must be started.

- 4. Start Engine.
- 5. Press READ/Scroll Down Key and Release.



If diagnostic trouble codes (DTCs) are already being displayed from a previous read operation, press and hold



6. Observe a Moving :∔: on Display.



NOTE: If a "No Link" message

displays, cycle ignition key to the OFF position for 10

Link

seconds, then back ON and repeat "Reading Diagnostic Data."

7. View Codes on Display



NOTE: If there are no codes present, the tool will display "9 Codes" and proceed to



display MIL Status when

READ/Scroll Down is pressed.

• To View Codes press and **READ/Scroll** release Down key.



· If the code is a Pending Code a will be displayed.





• Press and release



READ/Scroll Down key.

9. View I/M Monitors that are Incomplete.

• Press and release





NOTE: If there are no more I/M

Monitors that are Incomplete, the tool will then display Ready



Monitors when **READ/Scroll Down** key is pressed.

10. View I/M Monitors that are Ready.

• Press and release





NOTE: Pressing the **ERASE** key will scroll up to review

Diagnostic Trouble Codes and Data.

NOTE: Holding **READ /Scroll Down** key for 3 seconds will read *Diagnostic Trouble Codes and Data* again.

Erasing Diagnostic Trouble Codes and Data

Erasing allows the PocketScan[™] Code Reader to delete the codes and I/M Monitor status from the vehicle's computer modules.

IMPORTANT

Only Erase Diagnostic Data after checking system completely and writing down results.

AWARNING

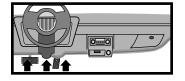
Avoid Cooling Fan! Fan may turn on during test.

1. Turn Ignition Key to the Off Position.



2. Locate and Plug in Data Link Connector (DLC.)

NOTE: The data link connector should be located under the dashboard on the driverside of the vehicle.



If the data link connector is not located under the dashboard as stated, a label describing the location of the data link connector should be there.

3. Observe Display toggles between "Pocket" and "Scan".



4. Turn Ignition Key to the ON Position leaving Engine Off.

NOTE: Make sure that the Ignition Key is ON and NOT in the Accessory Position.



5. Press and Hold **ERASE** Key for 3 Seconds and Release.



6. Observe "ERASE?" Displays.



7. Press and Hold for 3 Seconds and Release.



8. Observe a Moving --- on Display.



NOTE: If a "NO LINK" message displays, cycle ignition key to the OFF position for 10 seconds, then back ON, and repeat "Erasing Diagnostic Data."



9. Observe "DONE" Displays.



NOTE: If the problem causing Diagnostic Trouble Code(s) still exists, the code will return. The Diagnostic Trouble Code may return immediately or may return after vehicle has been driven.

NOTE: Pressing READ /Scroll Down key will read Diagnostic Trouble Codes and Data and Holding ERASE key will erase results again.

Using Included CD

The Included CD is ${f NOT}$ required to use tool.

Some items included on the CD are:				
☐ Manual included with tool.				
☐ DTC Lookup Software.				
☐ Adobe Acrobat Reader.				
To be able to use the included CD the PC must meet the following minimum requirements:				
☐ 486 PC.				
☐ 4 MB of RAM.				
☐ Microsoft Windows 95 or Newer.				
☐ CD ROM Drive.				
☐ Adobe Acrobat Reader.				
☐ Internet Explorer 4.0 or Higher.				
 ☐ Minimum Screen Resolution of 800 x 600. — If resolution is 800 x 600, in Display Properties, Settings Tab, Set Font Size to Small Fonts. 				

Running Applications On Included CD

- 1. Close All Programs on Computer.
- 2. Place Included CD in CD-Drive.

NOTE: If CD does not start automatically; Select the Start button. Select Run...Enter "X:\Menu.Exe" in Open Box on Computer and select OK.

NOTE: "X" is the CD-ROM drive letter on the computer.



- 3. Observe Menu Appears.
- 4. Follow screen prompts on computer to run applications.

Diagnostic Trouble Codes (DTCs)

This section contains the J2012 Diagnostic Trouble Codes (DTCs) as defined by the Society of Automotive Engineers (SAE). Diagnostic Trouble Codes (DTCs) are recommendations not a requirement. Manufacturers may not follow these, but most do.

Check vehicle's service manual for DTC meaning if the code(s) you are getting does not make sense.

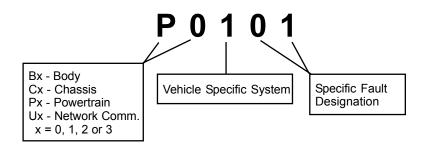
Diagnostic Trouble Code (DTCs) definitions have been assigned or reserved by the Society of Automotive Engineers (SAE) to direct to proper service area(s).

Codes not assigned or reserved by the Society of Automotive Engineers (SAE) are reserved for the manufacturer and referred to as Manufacturer Specific Diagnostic Trouble Codes (DTCs).

Remember:

- Visual inspections are important!
- Problems with wiring and connectors are common, especially for intermittent faults.
- Mechanical problems (vacuum leaks, binding or sticking linkages, etc.) can make a good sensor look bad to the computer.
- Incorrect information from a sensor may cause the computer to control the engine in the wrong way. Faulty engine operation might even make the computer show a known good sensor as being bad!

NOTE: Additional DTC definitions can be obtained from the CD supplied. If there are any problems operating the supplied CD contact Customer Service at 1(800) 228-7667.



Example.

P0101 - Mass or Volume Air Flow Circuit Range/Performance Problem

Powertrain Codes

P0xxx - Generic (SAE)

P1xxx - Manufacturer Specific

P2xxx - Generic (SAE)

P30xx-P33xx - Manufacturer Specific

P34xx-P39xx - Generic (SAE)

Chassis Codes

C0xxx - Generic (SAE)

C1xxx - Manufacturer Specific

C2xxx - Manufacturer Specific

C3xxx - Generic (SAE)

Body Codes

B0xxx - Generic (SAE)

B1xxx - Manufacturer Specific

B2xxx - Manufacturer Specific

B3xxx - Generic (SAE)

Network Communication Codes

U0xxx - Generic (SAE)

U1xxx - Manufacturer Specific

U2xxx - Manufacturer Specific

U3xxx - Generic (SAE)

P0001 - P0074

P0001 Fuel Volume Regulator Control Circuit/Open P0002 Fuel Volume Regulator Control CKT Range/Perf P0003 Fuel Volume Regulator Control Circuit Low P0004 Fuel Volume Regulator Control Circuit High P0005 Fuel Shutoff VIv. A Control Circuit/Open P0006 Fuel Shutoff VIv. A Control Circuit Low P0007 Fuel Shutoff VIv. A Control Circuit High P0008 Engine Position System Performance (Bank 1) P0009 Engine Position System Performance (Bank 2) P0010 Camshaft Position Actuator A - Bank 1 Circuit Malfunction Camshaft Position Actuator A - Bank 1 Timing Over-Advan. P0011 P0012 Camshaft Position Actuator A - Bank 1 Timing Over-Retard P0013 Camshaft Position Actuator B - Bank 1 Circuit Malfunction P0014 Camshaft Position Actuator B - Bank 1 Timing Over-Advan. P0015 Camshaft Position Actuator B - Bank 1 Timing Over-Retard P0016 Cam/Crankshaft Pos. Correlation Sensor A - Bank 1 P0017 Cam/Crankshaft Pos. Correlation Sensor B - Bank 1 P0018 Cam/Crankshaft Pos. Correlation Sensor A - Bank 2 P0019 Cam/Crankshaft Pos. Correlation Sensor B - Bank 2 P0020 Camshaft Position Actuator A - Bank 2 Circuit Malfunction P0021 Camshaft Position Actuator A - Bank 2 Timing Over-Advan. P0022 Camshaft Position Actuator A - Bank 2 Timing Over-Retard P0023 Camshaft Position Actuator B - Bank 2 Circuit Malfunction P0024 Camshaft Position Actuator B - Bank 2 Timing Over-Advan. P0025 Camshaft Position Actuator B - Bank 2 Timing Over-Retard P0026 Intake Valve-Bank 1 Control Solenoid CKT Range/Perf P0027 Exhaust Valve-Bank1 Control Solenoid CKT Range/Perf P0028 Intake Valve-Bank 2 Control Solenoid CKT Range/Perf P0029 Exhaust Valve-Bank2 Control Solenoid CKT Range/Perf P0030 HO2S Bank 1 Sen 1 Heater Circuit P0031 HO2S Bank 1 Sen 1 Heater Circuit Low P0032 HO2S Bank 1 Sen 1 Heater Circuit High P0033 Turbo/Sup Wastegate Control Circuit P0034 Turbo/Sup Wastegate Control Circuit Low P0035 Turbo/Sup Wastegate Control Circuit High P0036 HO2S Bank 1 Sen 2 Heater Circuit P0037 HO2S Bank 1 Sen 2 Heater Circuit Low

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P0038 HO2S Bank 1 Sen 2 Heater Circuit High
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P0041 O2 Bank 1 Sensor 2 Signals Swapped w/ O2 Bank 2 Sensor 2

P0042 HO2S Bank 1 Sen 3 Heater Circuit

P0043 HO2S Bank 1 Sen 3 Heater Circuit Low

P0044 HO2S Bank 1 Sen 3 Heater Circuit High

P0045 Turbo/Super Boost Ctrl Solenoid A Circuit/Open

P0046 Turbo/Super Boost Ctrl Solenoid A CKT Range/Perf

P0047 Turbo/Super Boost Ctrl Solenoid A Circuit Low

P0048 Turbo/Super Boost Ctrl Solenoid A Circuit High
P0049 Turbo/Super Boost Input/Turbine Speed Overspeed

P0050 HO2S Bank 2 Sen 1 Heater Circuit

P0051 HO2S Bank 2 Sen 1 Heater Circuit Low

P0052 HO2S Bank 2 Sen 1 Heater Circuit High

P0053 HO2S Bank 1 Sen 1 Heater Resistance

P0054 HO2S Bank 1 Sen 2 Heater Resistance

P0055 HO2S Bank 1 Sen 3 Heater Resistance

P0056 HO2S Bank 2 Sen 2 Heater Circuit

P0057 HO2S Bank 2 Sen 2 Heater Circuit Low

P0058 HO2S Bank 2 Sen 2 Heater Circuit High

P0059 HO2S Bank 2 Sen 1 Heater Resistance

P0060 HO2S Bank 2 Sen 2 Heater Resistance

P0061 HO2S Bank 2 Sen 3 Heater Resistance

P0062 HO2S Bank 2 Sen 3 Heater Circuit

P0063 HO2S Bank 2 Sen 3 Heater Circuit Low

P0064 HO2S Bank 2 Sen 3 Heater Circuit High

P0065 Air Assisted Injec. Control Range/Performance

P0066 Air Assisted Injec. Control Circuit Low

P0067 Air Assisted Injec. Control Circuit High

P0068 MAF/MAP Sensor Throttle Position Correlation

P0069 MAP/BARO Correlation

P0070 Ambient Air Temp. Sensor Circuit

P0071 Ambient Air Temp. Sensor Range/Performance

P0072 Ambient Air Temp. Sensor Circuit Low

P0073 Ambient Air Temp. Sensor Circuit High

P0074 Ambient Air Temp. Sensor CKT Intermittent

P0039 Turbo/Super Charger Bypass Cntrl CKT Performance

P0040 O2 Bank 1 Sensor 1 Signals Swapped w/ O2 Bank 2 Sensor 1

P0075 - P0148

P0075 Intake Valve-Bank 1 Control Circuit P0076 Intake Valve-Bank 1 Control Circuit Low P0077 Intake Valve-Bank 1 Control Circuit High Exhaust Valve-Bank1 Control Circuit P0078 P0079 Exhaust Valve-Bank1 Control Circuit Low P0080 Exhaust Valve-Bank1 Control Circuit High P0081 Intake Valve-Bank 2 Control Circuit P0082 Intake Valve-Bank 2 Control Circuit Low P0083 Intake Valve-Bank 2 Control Circuit High P0084 Exhaust Valve-Bank2 Control Circuit Exhaust Valve-Bank2 Control Circuit Low P0085 P0086 Exhaust Valve-Bank2 Control Circuit High P0087 Fuel Rail Pressure Too Low P0088 Fuel Rail Pressure Too High P0089 Fuel Pressure Reg 1 Performance Fuel Pressure Reg 1 Control Circuit P0090 P0091 Fuel Pressure Reg 1 Control Circuit Low P0092 Fuel Pressure Reg 1 Control Circuit High P0093 Fuel System Leak (Large) P0094 Fuel System Leak (Small) P0095 IAT Sensor 2 Circuit P0096 IAT Sensor 2 CKT Range/Perf P0097 IAT Sensor 2 Circuit Low P0098 IAT Sensor 2 Circuit High P0099 IAT Sensor 2 CKT Intermittent P0100 MAF or VAF A Circuit Malfunction P0101 MAF or VAF A CKT Range/Perf P0102 MAF or VAF A Circuit Low Input P0103 MAF or VAF A Circuit High Input P0104 MAF or VAF A CKT Intermittent MAP/BARO Circuit Malfunction P0105 P0106 MAP/BARO CKT Range/Perf P0107 MAP/BARO Circuit Low Input P0108 MAP/BARO Circuit High Input P0109 MAP/BARO CKT Intermittent P0110 IAT Sensor Circuit Malfunction IAT Sensor 1 CKT Range/Perf P0111

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P0112 IAT Sensor 1 Circuit Low Input
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- P0113 IAT Sensor 1 Circuit High Input
- P0114 IAT Sensor 1 CKT Intermittent
- P0115 Engine Coolant Temp Circuit Malfunction
- P0116 Engine Coolant Temp CKT Range/Perf
- P0117 Engine Coolant Temp Circuit Low Input
- P0118 Engine Coolant Temp Circuit High Input
- P0119 Engine Coolant Temp CKT Intermittent
- P0120 TPS/Pedal Position Sensor A Circuit Malfunction
- P0121 TPS/Pedal Position Sensor A CKT Range/Perf
- P0122 TPS/Pedal Position Sensor A Circuit Low Input
- P0123 TPS/Pedal Position Sensor A Circuit High Input
- P0124 TPS/Pedal Position Sensor A CKT Intermittent
- P0125 Clsd Loop Fuel Ctrl Insufficient Coolant Temp
- P0126 Coolant Temp Insufficient Stable Operation
- P0127 IAT Sensor Too High
- P0128 Coolant Temp Below Thermostat Regulating Temp
- P0129 Barometric Pressure Too Low
- P0130 O2 Sensor Circuit Malfunction (Bank 1 Sensor 1)
- P0131 O2 Sensor Circuit Low Volts (Bank 1 Sensor 1)
- P0132 O2 Sensor Circuit High Volts (Bank 1 Sensor 1)
- P0133 O2 Sensor CKT Slow Response (Bank 1 Sensor 1)
- P0134 O2 Sensor CKT No Activity (Bank 1 Sensor 1)
- P0135 O2 Sensor Heater Circuit Malfunction (Bank 1 Sensor 1)
- P0136 O2 Sensor Circuit Malfunction (Bank 1 Sensor 2)
- P0137 O2 Sensor Circuit Low Volts (Bank 1 Sensor 2)
- P0138 O2 Sensor Circuit High Volts (Bank 1 Sensor 2)
- P0139 O2 Sensor CKT Slow Response (Bank 1 Sensor 2)
- P0140 O2 Sensor CKT No Activity (Bank 1 Sensor 2)
- P0141 O2 Sensor Heater Circuit Malfunction (Bank 1 Sensor 2)
- P0142 O2 Sensor Circuit Malfunction (Bank 1 Sensor 3)
- P0143 O2 Sensor Circuit Low Volts (Bank 1 Sensor 3)
- P0144 O2 Sensor Circuit High Volts (Bank 1 Sensor 3)
- P0145 O2 Sensor CKT Slow Response (Bank 1 Sensor 3)
- P0146 O2 Sensor CKT No Activity (Bank 1 Sensor 3)
- P0147 O2 Sensor Heater Circuit Malfunction (Bank 1 Sensor 3)
- P0148 Fuel Delivery Malfunction

P0149 - P0222

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P0149
       Fuel Timing Malfunction
P0150
        O2 Sensor Circuit Malfunction (Bank 2 Sensor 1)
P0151
        O2 Sensor Circuit Low Volts (Bank 2 Sensor 1)
P0152 O2 Sensor Circuit High Volts (Bank 2 Sensor 1)
       O2 Sensor CKT Slow Response (Bank 2 Sensor 1)
P0153
P0154
       O2 Sensor CKT No Activity (Bank 2 Sensor 1)
P0155
        O2 Sensor Heater Circuit Malfunction (Bank 2 Sensor 1)
P0156
       O2 Sensor Circuit Malfunction (Bank 2 Sensor 2)
P0157
       O2 Sensor Circuit Low Volts (Bank 2 Sensor 2)
P0158
       O2 Sensor Circuit High Volts (Bank 2 Sensor 2)
P0159
        O2 Sensor CKT Slow Response (Bank 2 Sensor 2)
P0160
        O2 Sensor CKT No Activity (Bank 2 Sensor 2)
P0161
       O2 Sensor Heater Circuit Malfunction (Bank 2 Sensor 2)
P0162 O2 Sensor Circuit Malfunction (Bank 2 Sensor 3)
P0163
       O2 Sensor Circuit Low Volts (Bank 2 Sensor 3)
P0164
       O2 Sensor Circuit High Volts (Bank 2 Sensor 3)
P0165
       O2 Sensor CKT Slow Response (Bank 2 Sensor 3)
P0166
       O2 Sensor CKT No Activity (Bank 2 Sensor 3)
P0167
       O2 Sensor Heater Circuit Malfunction (Bank 2 Sensor 3)
P0168
        Engine Fuel Temperature Too High
P0169
        Fuel Composition Incorrect
P0170
        Fuel Trim Malfunction (Bank 1)
P0171
        System Too Lean (Bank 1)
P0172
        System Too Rich (Bank 1)
P0173
        Fuel Trim Malfunction (Bank 2)
P0174
        System Too Lean (Bank 2)
P0175
        System Too Rich (Bank 2)
P0176 Fuel Compensation Sensor Circuit Malfunction
P0177
        Fuel Compensation Sensor CKT Range/Perf
P0178
        Fuel Compensation Sensor Circuit Low Input
P0179
        Fuel Compensation Sensor Circuit High Input
P0180
        Fuel Temperature Sensor A Circuit Malfunction
P0181
        Fuel Temperature Sensor A CKT Range/Perf
P0182
       Fuel Temperature Sensor A Circuit Low Input
P0183
        Fuel Temperature Sensor A Circuit High Input
P0184
        Fuel Temperature Sensor A CKT Intermittent
P0185
       Fuel Temperature Sensor B Circuit Malfunction
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P0187
        Fuel Temperature Sensor B Circuit Low Input
P0188
        Fuel Temperature Sensor B Circuit High Input
P0189 Fuel Temperature Sensor B CKT Intermittent
P0190
       Fuel Rail Pressure Sensor Circuit Malfunction
P0191
       Fuel Rail Pressure Sensor CKT Range/Perf
P0192
        Fuel Rail Pressure Sensor Circuit Low Input
P0193
        Fuel Rail Pressure Sensor Circuit High Input
P0194 Fuel Rail Pressure Sensor CKT Intermittent
P0195 Engine Oil Temp Sensor Circuit Malfunction
        Engine Oil Temp Sensor CKT Range/Perf
P0196
P0197
        Engine Oil Temp Sensor Circuit Low Input
P0198
        Engine Oil Temp Sensor Circuit High Input
P0199
        Engine Oil Temp Sensor CKT Intermittent
P0200
        Injector Circuit Open
P0201
        Injector Circuit Open Cylinder 1
P0202
        Injector Circuit Open Cylinder 2
P0203
        Injector Circuit Open Cylinder 3
P0204
       Injector Circuit Open Cylinder 4
P0205
        Injector Circuit Open Cylinder 5
P0206
        Injector Circuit Open Cylinder 6
P0207
        Injector Circuit Open Cylinder 7
P0208
        Injector Circuit Open Cylinder 8
P0209
        Injector Circuit Open Cylinder 9
P0210
        Injector Circuit Open Cylinder 10
P0211
        Injector Circuit Open Cylinder 11
P0212
       Injector Circuit Open Cylinder 12
P0213 Cold Start Injector 1 Malfunction
P0214 Cold Start Injector 2 Malfunction
P0215 Engine Shutoff Solenoid Malfunction
P0216
        Injection Timing Control Circuit Malfunction
P0217
        Engine Overtemp Condition
P0218 Trans Overtemp Condition
P0219
        Engine Overspeed Condition
P0220
       TPS/Pedal Position Sensor/Switch B Circuit Malfunction
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P0186 Fuel Temperature Sensor B CKT Range/Perf

TPS/Pedal Position Sensor/Switch B CKT Range/Perf

P0222 TPS/Pedal Position Sensor/Switch B Circuit Low Input

P0221

P0223 - P0296

P0223 TPS/Pedal Position Sensor/Switch B Circuit High Input P0224 TPS/Pedal Position Sensor/Switch B CKT Intermittent P0225 TPS/Pedal Position Sensor/Switch C Circuit Malfunction P0226 TPS/Pedal Position Sensor/Switch C CKT Range/Perf P0227 TPS/Pedal Position Sensor/Switch C Circuit Low Input P0228 TPS/Pedal Position Sensor/Switch C Circuit High Input P0229 TPS/Pedal Position Sensor/Switch C CKT Intermittent P0230 Fuel Pump Primary Circuit Malfunction P0231 Fuel Pump Secondary Circuit Low P0232 Fuel Pump Secondary Circuit High P0233 Fuel Pump Secondary Circuit Intermittent Ckt P0234 **Engine Overboost Condition** P0235 Turbo/Super Boost Sensor A Circuit Malfunction P0236 Turbo/Super Boost Sensor A CKT Range/Perf P0237 Turbo/Super Boost Sensor A Circuit Low Input P0238 Turbo/Super Boost Sensor A Circuit High Input P0239 Turbo/Super Boost Sensor B Circuit Malfunction P0240 Turbo/Super Boost Sensor B CKT Range/Perf P0241 Turbo/Super Boost Sensor B Circuit Low Input P0242 Turbo/Super Boost Sensor B Circuit High Input P0243 Turbo/Sup Wastegate Solenoid A Malfunction P0244 Turbo/Sup Wastegate Solenoid A Range/Performance P0245 Turbo/Sup Wastegate Solenoid A Low P0246 Turbo/Sup Wastegate Solenoid A High P0247 Turbo/Sup Wastegate Solenoid B Malfunction P0248 Turbo/Sup Wastegate Solenoid B Range/Performance P0249 Turbo/Sup Wastegate Solenoid B Low P0250 Turbo/Sup Wastegate Solenoid B High P0251 Injection Pump Metering Control A P0252 Injection Pump Metering Control A Range/Performance P0253 Injection Pump Metering Control A Low P0254 Injection Pump Metering Control A High P0255 Injection Pump Metering Control A Intermittent Ckt P0256 Injection Pump Metering Control B Malfunction P0257 Injection Pump Metering Control B Range/Performance P0258 Injection Pump Metering Control B Low P0259 Injection Pump Metering Control B High

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P0262
        Cylinder 1 Injector Control Circuit High
        Cylinder 1 Contribution Balance Fault
P0263
P0264
        Cylinder 2 Injector Control Circuit Low
P0265
        Cylinder 2 Injector Control Circuit High
P0266
        Cylinder 2 Contribution Balance Fault
P0267
        Cylinder 3 Injector Control Circuit Low
P0268
        Cylinder 3 Injector Control Circuit High
P0269
        Cylinder 3 Contribution Balance Fault
P0270
        Cylinder 4 Injector Control Circuit Low
P0271
        Cylinder 4 Injector Control Circuit High
P0272
        Cylinder 4 Contribution Balance Fault
P0273
        Cylinder 5 Injector Control Circuit Low
P0274
        Cylinder 5 Injector Control Circuit High
P0275
        Cylinder 5 Contribution Balance Fault
P0276
        Cylinder 6 Injector Control Circuit Low
P0277
        Cylinder 6 Injector Control Circuit High
P0278
        Cylinder 6 Contribution Balance Fault
P0279
        Cylinder 7 Injector Control Circuit Low
P0280
        Cylinder 7 Injector Control Circuit High
P0281
        Cylinder 7 Contribution Balance Fault
P0282
        Cylinder 8 Injector Control Circuit Low
P0283
        Cylinder 8 Injector Control Circuit High
P0284
        Cylinder 8 Contribution Balance Fault
P0285
        Cylinder 9 Injector Control Circuit Low
P0286
        Cylinder 9 Injector Control Circuit High
P0287
        Cylinder 9 Contribution Balance Fault
P0288
        Cylinder 10 Injector Control Circuit Low
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Cylinder 10 Injector Control Circuit High

Cylinder 10 Contribution Balance Fault

Cylinder 11 Injector Control Circuit Low

Cylinder 11 Injector Control Circuit High

Cylinder 11 Contribution Balance Fault

Cylinder 12 Injector Control Circuit Low

Cylinder 12 Injector Control Circuit High

Cylinder 12 Contribution Balance Fault

Injection Pump Metering Control B Intermittent Ckt

Cylinder 1 Injector Control Circuit Low

P0260

P0261

P0289

P0290

P0291

P0292

P0293

P0294

P0295

P0296

P0297 - P0371

D0007	Vahiala Overanaed Errer				
P0297	Vehicle Overspeed Error				
P0298	Engine Oil Temperature Too High				
P0299	Turbo/Super Charger UnderBoost				
P0300	Random/Multiple Cylinder Misfire Detected				
P0301	Cylinder 1 Misfire Detected				
P0302	Cylinder 2 Misfire Detected				
P0303	Cylinder 3 Misfire Detected				
P0304	Cylinder 4 Misfire Detected				
P0305	Cylinder 5 Misfire Detected				
P0306	Cylinder 6 Misfire Detected				
P0307	Cylinder 7 Misfire Detected				
P0308	Cylinder 8 Misfire Detected				
P0309	Cylinder 9 Misfire Detected				
P0310	Cylinder 10 Misfire Detected				
P0311	Cylinder 11 Misfire Detected				
P0312	Cylinder 12 Misfire Detected				
P0313	Misfire Detected Low Fuel Level				
P0314	Misfire Detected Cyl. not Specific				
P0315	Crankshaft Position System Variation Not Learned				
P0316	Misfire Detected 1st 1000 Revs.				
P0317	Rough Road Hardware Not Present				
P0318	Rough Road Sensor A Signal Circuit				
P0319	Rough Road Sensor B				
P0320	Ignition/Dist Engine Speed Input Circuit Malfunction				
P0321	Ignition/Dist Engine Speed Input CKT Range/Perf				
P0322	Ignition/Dist Engine Speed Input Circuit No Signal				
P0323	Ignition/Dist Engine Speed Input CKT Intermittent				
P0324	Knock Control System Malfunction				
P0325	Knock Sensor 1 Circuit Malfunction Bank 1 or 1 Sensor				
P0326	Knock Sensor 1 CKT Range/Perf Bank 1 or 1 Sensor				
P0327	Knock Sensor 1 Circuit Low Input Bank 1 or 1 Sensor				
P0328	Knock Sensor 1 Circuit High Input Bank 1 or 1 Sensor				
P0329	Knock Sensor 1 CKT Intermittent Bank 1 or 1 Sensor				
P0330	Knock Sensor 2 Circuit Malfunction (Bank 2)				
P0331	Knock Sensor 2 CKT Range/Perf (Bank 2)				
P0332	Knock Sensor 2 Circuit Low Input (Bank 2)				
P0333	Knock Sensor 2 Circuit High Input (Bank 2)				
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P0334
        Knock Sensor 2 CKT Intermittent (Bank 2)
P0335
        Crankshaft Position Sensor A Circuit Malfunction
P0336
        Crankshaft Position Sensor A CKT Range/Perf
P0337
        Crankshaft Position Sensor A Circuit Low Input
P0338
        Crankshaft Position Sensor A Circuit High Input
P0339
        Crankshaft Position Sensor A CKT Intermittent
P0340
        Camshaft Position Sensor A - Bank 1 Circuit Malfunction
P0341
        Camshaft Position Sensor A - Bank 1 CKT Range/Perf
P0342
        Camshaft Position Sensor A - Bank 1 Circuit Low Input
P0343
        Camshaft Position Sensor A - Bank 1 Circuit High Input
P0344
        Camshaft Position Sensor A - Bank 1 CKT Intermittent
P0345
        Camshaft Position Sensor A - Bank 2 Circuit Malfunction
P0346
        Camshaft Position Sensor A - Bank 2 CKT Range/Perf
P0347
        Camshaft Position Sensor A - Bank 2 Circuit Low Input
P0348
        Camshaft Position Sensor A - Bank 2 Circuit High Input
P0349
        Camshaft Position Sensor A - Bank 2 CKT Intermittent
P0350
        Ignition Coil Primary/Secondary Circuit Malfunction
P0351
        Ignition Coil A Primary/Secondary Circuit Malfunction
P0352
        Ignition Coil B Primary/Secondary Circuit Malfunction
P0353
        Ignition Coil C Primary/Secondary Circuit Malfunction
P0354
        Ignition Coil D Primary/Secondary Circuit Malfunction
P0355
        Ignition Coil E Primary/Secondary Circuit Malfunction
P0356
        Ignition Coil F Primary/Secondary Circuit Malfunction
P0357
        Ignition Coil G Primary/Secondary Circuit Malfunction
P0358
        Ignition Coil H Primary/Secondary Circuit Malfunction
P0359
        Ignition Coil I Primary/Secondary Circuit Malfunction
P0360
        Ignition Coil J Primary/Secondary Circuit Malfunction
P0361
        Ignition Coil K Primary/Secondary Circuit Malfunction
P0362
        Ignition Coil L Primary/Secondary Circuit Malfunction
P0363
        Misfire Detected Fueling Disabled
P0365
        Camshaft Position Sensor B - Bank 1 Circuit Malfunction
P0366
        Camshaft Position Sensor B - Bank 1 CKT Range/Perf
P0367
        Camshaft Position Sensor B - Bank 1 Circuit Low Input
P0368
        Camshaft Position Sensor B - Bank 1 Circuit High Input
P0369
        Camshaft Position Sensor B - Bank 1 CKT Intermittent
P0370
        Timing Reference High Res Signal A Malfunction
P0371
        Timing Reference High Res Signal A Too Many Pulses
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P0372 - P0450

P0372 Timing Reference High Res Signal A Too Few Pulses P0373 Timing Reference High Res Signal A Erratic Pulses P0374 Timing Reference High Res Signal A No Pulses P0375 Timing Reference High Res Signal B Malfunction P0376 Timing Reference High Res Signal B Too Many Pulses P0377 Timing Reference High Res Signal B Too Few Pulses P0378 Timing Reference High Res Signal B Erratic Pulses P0379 Timing Reference High Res Signal B No Pulses P0380 Glow Plug/Heater CKT A Malfunction P0381 Glow Plug/Heater Indicator Circuit Malfunction P0382 Glow Plug/Heater CKT B Malfunction P0383 Glow Plug Module Control Circuit Low P0384 Glow Plug Module Control Circuit High P0385 Crankshaft Position Sensor B Circuit Malfunction P0386 Crankshaft Position Sensor B CKT Range/Perf P0387 Crankshaft Position Sensor B Circuit Low Input P0388 Crankshaft Position Sensor B Circuit High Input P0389 Crankshaft Position Sensor B CKT Intermittent P0390 Camshaft Position Sensor B - Bank 2 Circuit Malfunction P0391 Camshaft Position Sensor B - Bank 2 CKT Range/Perf P0392 Camshaft Position Sensor B - Bank 2 Circuit Low Input P0393 Camshaft Position Sensor B - Bank 2 Circuit High Input P0394 Camshaft Position Sensor B - Bank 2 CKT Intermittent P0400 EGR Flow Malfunction P0401 EGR Flow Insufficient P0402 EGR Flow Excessive P0403 EGR Flow Circuit Malfunction P0404 EGR Flow CKT Range/Perf P0405 EGR Flow Sensor A Circuit Low Input P0406 EGR Flow Sensor A Circuit High Input P0407 EGR Flow Sensor B Circuit Low Input P0408 EGR Flow Sensor B Circuit High Input P0409 EGR Flow Sensor A Circuit P0410 Secondary Air Injection System Malfunction P0411 Secondary Air Injection System Incorrect Flow P0412 Secondary Air Injection System Valve A Malfunction P0413 Secondary Air Injection System Valve A CKT Open

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P0414
       Secondary Air Injection System Valve A CKT Short
P0415
       Secondary Air Injection System Valve B Malfunction
P0416
        Secondary Air Injection System Valve B CKT Open
P0417
       Secondary Air Injection System Valve B CKT Short
P0418
       Secondary Air Injection System Relay A Malfunction
P0419
       Secondary Air Injection System Relay B Malfunction
P0420
       Catalyst Efficiency Below Threshold (Bank 1)
P0421
       Warm Up Catalyst Below Threshold (Bank 1)
P0422
       Main Catalyst Below Threshold (Bank 1)
P0423
       Heated Catalyst Below Threshold (Bank 1)
P0424
       Htd Catalyst Temp Below Threshold (Bank 1)
P0425
       Catalyst Temp. Sensor (Bank 1 Sensor 1)
P0426
       Catalyst Temp. Sensor Performance (Bank 1 Sensor 1)
P0427
       Catalyst Temp. Sensor Circuit Low (Bank 1 Sensor 1)
P0428
       Catalyst Temp. Sensor Circuit High (Bank 1 Sensor 1)
P0429
       Catalyst Heater Control (Bank 1)
P0430
       Catalyst Efficiency Below Threshold (Bank 2)
P0431
       Warm Up Catalyst Below Threshold (Bank 2)
P0432
       Main Catalyst Below Threshold (Bank 2)
P0433
       Heated Catalyst Below Threshold (Bank 2)
P0434
       Htd Catalyst Temp Below Threshold (Bank 2)
P0435
       Catalyst Temp. Sensor (Bank 2)
P0436
       Catalyst Temp. Sensor Performance (Bank 2)
P0437
       Catalyst Temp. Sensor Circuit Low (Bank 2)
P0438
       Catalyst Temp. Sensor Circuit High (Bank 2)
P0439 Catalyst Heater Control (Bank 2)
P0440 EVAP Emission Control System Malfunction
P0441 EVAP Emission Control System Purge Flow Fault
P0442 EVAP Emission Control System Leak (Small)
P0443 EVAP Emission Control System Purge Valve C Fault
P0444 EVAP Emission Control System Purge Valve C Open
P0445 EVAP Emission Control System Purge Valve C Short
P0446 EVAP Emission Control System Vent Circuit Malf
P0447 EVAP Emission Control System Vent Circuit Open
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P0448 EVAP Emission Control System Vent Circuit Short P0449 EVAP Emission Control System Vent VIv/Sol Malf P0450 EVAP Emission Control System Pres Sensor Fault

P0451 - P0524

P0451 EVAP Emission Control System Pres Sensor Range EVAP Emission Control System Pres Sensor Low P0453 **EVAP Emission Control System Pres Sensor High** P0454 EVAP Emission Control System Pres Sensor Erratic P0455 EVAP Emission Control System Leak (Large) P0456 EVAP Emission Control System Leak Very Small P0457 EVAP Emission Control System Leak Cap Loose/Off P0458 EVAP System Canister Purge Sol Circuit Low P0459 EVAP System Canister Purge Sol Circuit High P0460 Fuel Level Sensor A Circuit Malfunction P0461 Fuel Level Sensor A CKT Range/Perf P0462 Fuel Level Sensor A Circuit Low Input P0463 Fuel Level Sensor A Circuit High Input P0464 Fuel Level Sensor A CKT Intermittent P0465 EVAP Emission Purge Flow Sensor Circuit Malfunction P0466 EVAP Emission Purge Flow Sensor CKT Range/Perf P0467 **EVAP Emission Purge Flow Sensor Circuit Low Input** P0468 EVAP Emission Purge Flow Sensor Circuit High Input P0469 EVAP Emission Purge Flow Sensor CKT Intermittent P0470 Exhaust Pressure Sensor Circuit Malfunction P0471 Exhaust Pressure Sensor CKT Range/Perf P0472 Exhaust Pressure Sensor Circuit Low Input P0473 Exhaust Pressure Sensor Circuit High Input P0474 Exhaust Pressure Sensor CKT Intermittent P0475 Exhaust Pressure Control Valve Circuit Malfunction P0476 Exhaust Pressure Control Valve CKT Range/Perf P0477 Exhaust Pressure Control Valve Circuit Low Input P0478 Exhaust Pressure Control Valve Circuit High Input P0479 Exhaust Pressure Control Valve CKT Intermittent P0480 Cooling Fan 1 Control Circuit P0481 Cooling Fan 2 Control Circuit P0482 Cooling Fan 3 Control Circuit P0483 Control Fan Rationality Check Malfunction P0484 Control Fan CKT Over Current P0485 Control Fan Power/Ground Circuit Malfunction P0486 EGR System Sensor B Circuit P0487 EGR TPS Control Circuit

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P0488 EGR TPS Control CKT Range/Perf
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P0489 EGR Control Circuit Low

P0490 EGR Control Circuit High

P0491 Secondary Air System (Bank 1)

P0492 Secondary Air System (Bank 2)

P0493 Fan Speed Overspeed

P0494 Fan Speed Low

P0495 Fan Speed High

P0496 EVAP Emission High Purge Flow Fault

P0497 EVAP Emission Low Purge Flow Fault

P0498 EVAP Emission Vent VIv/Sol Malf Circuit Low

P0499 EVAP Emission Vent VIv/Sol Malf Circuit High

P0500 Veh Speed Sensor A Malfunction

P0501 Veh Speed Sensor A Range/Performance

P0502 Veh Speed Sensor A Circuit Low Input

P0503 Veh Speed Sensor A Erratic/High

P0504 Brake Switch A Brake Switch B Correlation

P0505 Idle Control System Malfunction

P0506 Idle Control System RPM Low

P0507 Idle Control System RPM High

P0508 Idle Control System Circuit Low

P0509 Idle Control System Circuit High

P0510 Closed Throttle Position Switch

P0511 Idle Air Control Circuit

P0512 Starter Signal Circuit

P0513 Immobilizer Incorrect

P0514 Battery Temperature Sensor CKT Range/Perf

P0515 Battery Temperature Sensor Circuit

P0516 Battery Temperature Circuit Low

P0517 Battery Temperature Circuit High

P0518 Idle Air Control CKT Intermittent

P0519 Idle Air Control System Performance

P0520 Engine Oil Pressure Sensor/Switch Circuit Malfunction

P0521 Engine Oil Pressure Sensor/Switch Range/Performance

P0522 Engine Oil Pressure Sensor/Switch Low Voltage

P0523 Engine Oil Pressure Sensor/Switch High Voltage

P0524 Engine Oil Pressure Too Low

P0525 - P0598

P0525 Cruise Servo CKT Range/Perf P0526 Fan Speed Sensor Circuit P0527 Fan Speed Sensor CKT Range/Perf P0528 Fan Speed Sensor Circuit No Signal P0529 Fan Speed Sensor CKT Intermittent P0530 A/C Refrigerant Pressure Sensor A Circuit Malfunction P0531 A/C Refrigerant Pressure Sensor A CKT Range/Perf P0532 A/C Refrigerant Pressure Sensor A Circuit Low Input P0533 A/C Refrigerant Pressure Sensor A Circuit High Input P0534 A/C Refrigerant Charge Loss P0535 A/C Evaporator Temperature Sensor Circuit P0536 A/C Evaporator Temperature Sensor CKT Range/Perf P0537 A/C Evaporator Temperature Sensor Circuit Low P0538 A/C Evaporator Temperature Sensor Circuit High P0539 A/C Evaporator Temperature Sensor CKT Intermittent P0540 Intake Air Heater A Circuit P0541 Intake Air Heater A Circuit Low P0542 Intake Air Heater A Circuit High P0543 Intake Air Heater A Circuit Open P0544 Exhaust Gas Temp. Sensor Circuit (Bank 1 Sensor 1) Exhaust Gas Temp. Sensor Circuit Low (Bank 1 Sensor 1) P0545 P0546 Exhaust Gas Temp. Sensor Circuit High (Bank 1 Sensor 1) P0547 Exhaust Gas Temp. Sensor Circuit (Bank 2 Sensor 1) P0548 Exhaust Gas Temp. Sensor Circuit Low (Bank 2 Sensor 1) P0549 Exhaust Gas Temp. Sensor Circuit High (Bank 2 Sensor 1) P0550 Power Steering Pres Sensor Circuit Malfunction P0551 Power Steering Pres Sensor CKT Range/Perf P0552 Power Steering Pres Sensor Circuit Low Input P0553 Power Steering Pres Sensor Circuit High Input P0554 Power Steering Pres Sensor CKT Intermittent P0555 Brake Booster Pressure Sensor Circuit P0556 Brake Booster Pressure Sensor CKT Range/Perf P0557 Brake Booster Pressure Sensor Circuit Low Input P0558 Brake Booster Pressure Sensor Circuit High Input P0559 Brake Booster Pressure Sensor CKT Intermittent P0560 System Voltage Malfunction P0561 System Voltage Unstable

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P0562 System Voltage Low
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P0563 System Voltage High

P0564 Cruise Control Multi-Func. Input A Signal Error

P0565 Cruise Control On Signal Malfunction

P0566 Cruise Control Off Signal Malfunction

P0567 Cruise Control Resume Signal Malfunction

P0568 Cruise Control Set Signal Malfunction

P0569 Cruise Control Coast Signal Malfunction

P0570 Cruise Control Acceleration Signal Error

P0571 Brake Switch A Circuit Malfunction

P0572 Brake Switch A Circuit Low Input

P0573 Brake Switch A Circuit High Input

P0574 Cruise Control Vehicle Speed Too High

P0575 Cruise Control Circuit Malfunction

P0576 Cruise Control Circuit Low Input

P0577 Cruise Control Circuit High Input

P0578 Cruise Control Multi-Func. Input A Circuit Stuck

P0579 Cruise Control Multi-Func. Input A CKT Range/Perf

P0580 Cruise Control Multi-Func. Input A Circuit Low

P0581 Cruise Control Multi-Func. Input A Circuit High

P0582 Cruise Control Vacuum Control Circuit/Open

P0583 Cruise Control Vacuum Control Circuit Low P0584 Cruise Control Vacuum Control Circuit High

P0585 Cruise Control Multi-Func. Input Correlation

P0586 Cruise Control Vent Control Circuit/Open

P0587 Cruise Control Vent Control Circuit Low

P0588 Cruise Control Vent Control Circuit High

P0589 Cruise Control Multi-Func. Input B Circuit

P0590 Cruise Control Multi-Func. Input B Circuit Stuck

P0591 Cruise Control Multi-Func. Input B CKT Range/Perf

P0592 Cruise Control Multi-Func. Input B Circuit Low

P0593 Cruise Control Multi-Func. Input B Circuit High

P0594 Cruise Control Servo Control Circuit/Open

P0595 Cruise Control Servo Control Circuit Low

P0596 Cruise Control Servo Control Circuit High

P0597 Cruise Control Control Circuit/Open

P0598 Cruise Control Control Circuit Low

P0599 - P0672

P0599 Cruise Control Control Circuit High P0600 Serial Comm Link Malfunction P0601 Int Control Module Memory Check Sum Error P0602 Control Module Programming Error P0603 PCM Keep Alive Memory (KAM) Error P0604 PCM Random Access Mem (RAM) Error P0605 PCM Read Only Memory (ROM) Error P0606 PCM Processor Fault P0607 Control Module Performance P0608 Control Module VSS Output A Malfunction Control Module VSS Output B Malfunction P0609 P0610 Control Module Vehicle Options Malfunction P0611 Injector Control Module Performance P0612 Injector Control Module Relay Control P0613 TCM Processor Fault P0614 ECM/TCM Incompatible P0615 Starter Relay Circuit P0616 Starter Relay Circuit Low P0617 Starter Relay Circuit High P0618 Alternative Fuel Module (KAM) Error P0619 Alternative Fuel Module Memory P0620 **Generator Control Malfunction** P0621 Generator L-Term. Lamp Control P0622 Generator F-Term. Field F Control P0623 Generator Lamp Control Circuit P0624 Fuel Cap Lamp Circuit P0625 Generator F-Term. Circuit Low P0626 Generator F-Term. Circuit High P0627 Fuel Pump A Control Circuit Open P0628 Fuel Pump A Control Circuit Low P0629 Fuel Pump A Control Circuit High P0630 PCM VIN Not Program. Or Mismatch P0631 TCM VIN Not Program. Or Mismatch P0632 Odometer Code Not Programmed ECM/PCM P0633 Immobilizer Code Not Programmed ECM/PCM P0634 PCM/ECM/TCM Internal Temp. Too High P0635 Power Steering Control Circuit

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P0636 Power Steering Control Circuit Low
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- P0637 Power Steering Control Circuit High
- P0638 Throttle Actuator Range/Performance (Bank 1)
- P0639 Throttle Actuator Range/Performance (Bank 2)
- P0640 Intake Air Heater Control Circuit
- P0641 Sensor A Reference Voltage Circuit/Open
- P0642 Sensor A Reference Voltage Circuit Low
- P0643 Sensor A Reference Voltage Circuit High
- P0644 Driver Display Serial Comm Link
- P0645 A/C Clutch Relay Control Circuit
- P0646 A/C Clutch Relay Control Circuit Low
- P0647 A/C Clutch Relay Control Circuit High
- P0648 Immobilizer Lamp Circuit
- P0649 Cruise Control Lamp Circuit
- P0650 MIL Control Circuit Malfunction
- P0651 Sensor B Reference Voltage Circuit/Open
- P0652 Sensor B Reference Voltage Circuit Low
- P0653 Sensor B Reference Voltage Circuit High
- P0654 Engine RPM Circuit Malfunction
- P0655 Engine Hot Lamp Output Circuit Malfunction
- P0656 Fuel Level Output Circuit Malfunction
- P0657 Actuator Supply Voltage A Circuit/Open
- P0658 Actuator Supply Voltage A Circuit Low
- P0659 Actuator Supply Voltage A Circuit High
- P0660 Intake Man Tuning Control CKT Open (Bank 1)
- P0661 Intake Man Tuning Control CKT Low (Bank 1)
- P0662 Intake Man Tuning Control CKT High (Bank 1)
- P0663 Intake Man Tuning Control CKT Open (Bank 2)
- P0664 Intake Man Tuning Control CKT Low (Bank 2)
- P0665 Intake Man Tuning Control CKT High (Bank 2)
- P0666 PCM/ECM/TCM Internal Temp. Sensor Circuit
- P0667 PCM/ECM/TCM Internal Temp. Sensor Range/Perf.
- P0668 PCM/ECM/TCM Internal Temp. Sensor Circuit Low
- P0669 PCM/ECM/TCM Internal Temp. Sensor Circuit High
- P0670 Glow Plug/Heater Module Control
- P0671 Glow Plug/Heater Cylinder 1
- P0672 Glow Plug/Heater Cylinder 2

P0673 - P0746

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P0673
       Glow Plug/Heater Cylinder 3
P0674
        Glow Plug/Heater Cylinder 4
P0675
        Glow Plug/Heater Cylinder 5
P0676
       Glow Plug/Heater Cylinder 6
P0677
       Glow Plug/Heater Cylinder 7
P0678
       Glow Plug/Heater Cylinder 8
P0679
        Glow Plug/Heater Cylinder 9
P0680
       Glow Plug/Heater Cylinder 10
P0681
       Glow Plug/Heater Cylinder 11
P0682
       Glow Plug/Heater Cylinder 12
P0683
       Glow Plug/Heater Module Comm Problem
P0684
        Glow Plug/Heater Comm Problem CKT Range/Perf
P0685
       ECM/PCM Power Relay Control Circuit/Open
P0686
       ECM/PCM Power Relay Control Circuit Low
P0687
       ECM/PCM Power Relay Control Circuit High
P0688
       ECM/PCM Power Relay Sense Circuit
P0689
       ECM/PCM Power Relay Sense Circuit Low
P0690 ECM/PCM Power Relay Sense Circuit High
P0691 Fan 1 Control Circuit Low
P0692 Fan 1 Control Circuit High
P0693
       Fan 2 Control Circuit Low
P0694
       Fan 2 Control Circuit High
P0695 Fan 3 Control Circuit Low
P0696 Fan 3 Control Circuit High
P0697
       Sensor C Reference Voltage Circuit/Open
P0698
       Sensor C Reference Voltage Circuit Low
P0699
       Sensor C Reference Voltage Circuit High
P0700
       Trans Control Sys Malfunction
P0701
       Trans Control Sys Range/Performance
P0702
       Trans Control Sys Electrical
P0703
        Brake Switch B Circuit Malfunction
P0704
       Clutch Switch Input Circuit Malfunction
P0705
       Trans Range Sensor Circuit Malfunction (PRNDL Input)
P0706
       Trans Range Sensor CKT Range/Perf
P0707
       Trans Range Sensor Circuit Low Input
P0708
       Trans Range Sensor Circuit High Input
P0709
       Trans Range Sensor CKT Intermittent
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- P0710 Transmission Fluid Temperature Sensor Circuit Malfunction
- P0711 Trans Fluid Temp Sensor A CKT Range/Perf
- P0712 Trans Fluid Temp Sensor A Circuit Low Input
- P0713 Trans Fluid Temp Sensor A Circuit High Input
- P0714 Trans Fluid Temp Sensor A CKT Intermittent
- P0715 Input/Turbine Speed Sensor A Circuit Malfunction
- P0716 Input/Turbine Speed Sensor A CKT Range/Perf
- P0717 Input/Turbine Speed Sensor A Circuit No Signal
- P0718 Input/Turbine Speed Sensor A CKT Intermittent
- P0719 Brake Switch B Circuit Low Input
- P0720 Output Speed Sensor Circuit Malfunction
- P0721 Output Speed Sensor Circuit Range/Perf
- P0722 Output Speed Sensor Circuit No Signal
- P0723 Output Speed Sensor CKT Intermittent
- P0724 Brake Switch B Circuit High Input
- P0725 Engine Speed Sensor Circuit Malfunction
- P0726 Engine Speed Sensor CKT Range/Perf
- P0727 Engine Speed Sensor Circuit No Signal
- P0728 Engine Speed Sensor CKT Intermittent
- P0729 Gear 6 Ratio Incorrect
- P0730 Gear Ratio Incorrect
- P0731 Gear 1 Ratio Incorrect
- P0732 Gear 2 Ratio Incorrect
- P0733 Gear 3 Ratio Incorrect
- P0734 Gear 4 Ratio Incorrect
- P0735 Gear 5 Ratio Incorrect
- P0736 Reverse Ratio Incorrect
- P0737 TCM Engine Speed Output Circuit
- P0738 TCM Engine Speed Output Circuit Low
- P0739 TCM Engine Speed Output Circuit High
- P0740 TCC Circuit Malfunction
- P0741 Torque Converter CKT Performance Or Stuck Off
- P0742 Torque Converter Circuit Stuck On
- P0743 Torque Converter Circuit Electrical
- P0744 Torque Converter CKT Intermittent
- P0745 Pres Ctrl Sol. A Circuit Malfunction
- P0746 Pres Ctrl Sol. A CKT Performance Or Stuck Off

P0747 - P0820

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Pres Ctrl Sol. A Circuit Stuck On
P0748 Pres Ctrl Sol. A Circuit Electrical
P0749
       Pres Ctrl Sol. A CKT Intermittent
P0750 Shift Solenoid A Malfunction
P0751 Shift Solenoid A CKT Performance Or Stuck Off
P0752 Shift Solenoid A Circuit Stuck On
P0753
        Shift Solenoid A Circuit Electrical
P0754
        Shift Solenoid A CKT Intermittent
P0755 Shift Solenoid B Malfunction
P0756 Shift Solenoid B CKT Performance Or Stuck Off
P0757
        Shift Solenoid B Circuit Stuck On
P0758
        Shift Solenoid B Circuit Electrical
P0759 Shift Solenoid B CKT Intermittent
P0760 Shift Solenoid C Malfunction
P0761 Shift Solenoid C CKT Performance Or Stuck Off
P0762 Shift Solenoid C Circuit Stuck On
P0763
        Shift Solenoid C Circuit Electrical
P0764 Shift Solenoid C CKT Intermittent
P0765 Shift Solenoid D Malfunction
P0766
       Shift Solenoid D CKT Performance Or Stuck Off
P0767
        Shift Solenoid D Circuit Stuck On
P0768
        Shift Solenoid D Circuit Electrical
P0769 Shift Solenoid D CKT Intermittent
P0770 Shift Solenoid E Malfunction
P0771 Shift Solenoid E CKT Performance Or Stuck Off
P0772 Shift Solenoid E Circuit Stuck On
P0773 Shift Solenoid E Circuit Electrical
P0774 Shift Solenoid E CKT Intermittent
P0775 Pres Ctrl Sol. B Circuit Malfunction
P0776 Pres Ctrl Sol. B CKT Performance Or Stuck Off
P0777 Pres Ctrl Sol. B Circuit Stuck On
P0778 Pres Ctrl Sol. B Circuit Electrical
P0779 Pres Ctrl Sol. B CKT Intermittent
P0780 Shift Malfunction
P0781 1-2 Shift Malfunction
P0782 2-3 Shift Malfunction
P0783 3-4 Shift Malfunction
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- P0784 4-5 Shift Malfunction
- P0785 Shift/Timing Solenoid Malfunction
- P0786 Shift/Timing Solenoid Range/Performance
- P0787 Shift/Timing Solenoid Low
- P0788 Shift/Timing Solenoid High
- P0789 Shift/Timing Solenoid Intermittent Ckt
- P0790 Normal/Performance Switch Circuit Malfunction
- P0791 Intermediate Shaft Speed Sensor A Circuit
- P0792 Intermediate Shaft Speed Sensor A Circuit Range/Perf
- P0793 Intermediate Shaft Speed Sensor A Circuit No Signal
- P0794 Intermediate Shaft Speed Sensor A CKT Intermittent
- P0795 Pres Ctrl Sol. C Malfunction
- P0796 Pres Ctrl Sol. C CKT Performance Or Stuck Off
- P0797 Pres Ctrl Sol. C Circuit Stuck On
- P0798 Pres Ctrl Sol. C Circuit Electrical
- P0799 Pres Ctrl Sol. C CKT Intermittent
- P0800 Transfer Case Control System MIL Request
- P0801 Reverse Inhibit Control Circuit Malfunction
- P0802 Trans Control Sys MIL Request Circuit/Open
- P0803 1-4 Upshift Solenoid Circuit Malfunction
- P0804 1-4 Upshift Lamp Circuit Malfunction
- P0805 Clutch Position Sensor Circuit Malfunction
- P0806 Clutch Position Sensor Circuit Range/Performance
- P0807 Clutch Position Sensor Circuit Low
- P0808 Clutch Position Sensor Circuit High
- P0809 Clutch Position Sensor Circuit Intermittent Ckt
- P0810 Clutch Position Control Malfunction
- P0811 Clutch Slippage Excessive
- P0812 Reverse Input Circuit Malfunction
- P0813 Reverse Output Circuit Malfunction
- P0814 Trans Range Display Circuit Malfunction
- P0815 Upshift Switch Circuit Malfunction
- P0816 Downshift Switch Circuit Malfunction
- P0817 Starter Disable Circuit
- P0818 Driveline Disconn. Switch Input
- P0819 Up/Down Shift SW Transmission Range Correlation
- P0820 Gear Lever X-Y Sensor Circuit

P0821 - P0894

P0821 Gear Lever X Sensor Circuit Gear Lever Y Sensor Circuit P0822 Gear Lever X Sensor Circuit Intermittent Ckt P0823 P0824 Gear Lever Y Sensor Circuit Intermittent Ckt P0825 Gear Lever Push/Pull Switch (Shift Anticipate) P0826 Upshift Switch Downshift Switch Circuit P0827 Upshift Switch Downshift Switch Circuit Low P0828 Upshift Switch Downshift Switch Circuit High P0829 5-6 Shift P0830 Clutch Position Switch A Circuit Malfunction Clutch Position Switch A Circuit Low P0831 P0832 Clutch Position Switch A Circuit High P0833 Clutch Position Switch B Circuit Malfunction P0834 Clutch Position Switch B Circuit Low P0835 Clutch Position Switch B Circuit High P0836 4 Wheel Drive Switch Circuit Malfunction P0837 4 Wheel Drive Switch CKT Range/Perf P0838 4 Wheel Drive Switch Circuit Low P0839 4 Wheel Drive Switch Circuit High P0840 Trans Fluid Press Sensor/Switch A Circuit Malfunction P0841 Trans Fluid Press Sensor/Switch A CKT Range/Perf P0842 Trans Fluid Press Sensor/Switch A Circuit Low P0843 Trans Fluid Press Sensor/Switch A Circuit High P0844 Trans Fluid Press Sensor/Switch A CKT Intermittent P0845 Trans Fluid Press Sensor/Switch B Circuit Malfunction Trans Fluid Press Sensor/Switch B CKT Range/Perf P0846 Trans Fluid Press Sensor/Switch B Circuit Low P0847 P0848 Trans Fluid Press Sensor/Switch B Circuit High P0849 Trans Fluid Press Sensor/Switch B CKT Intermittent P0850 Park/Neutral Switch Input Circuit P0851 Park/Neutral Switch Circuit Low Input P0852 Park/Neutral Switch Circuit High Input P0853 Drive Switch Input Circuit P0854 Drive Switch Circuit Low Input P0855 Drive Switch Circuit High Input P0856 Traction Control Input Signal P0857 Traction Control Input Signal Range/Performance

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P0858 Traction Control Input Signal Low
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- P0860 Gear Shift Module Communications Circuit
- P0861 Gear Shift Module Communications Circuit Low
- P0862 Gear Shift Module Communications Circuit High
- P0863 TCM Communications Circuit
- P0864 TCM Communications CKT Range/Perf
- P0865 TCM Communications Circuit Low
- P0866 TCM Communications Circuit High
- P0867 Trans Fluid Press
- P0868 Trans Fluid Press Low
- P0869 Trans Fluid Press High
- P0870 Trans Fluid Press Sensor/Switch C Circuit
- P0871 Trans Fluid Press Sensor/Switch C CKT Range/Perf
- P0872 Trans Fluid Press Sensor/Switch C Circuit Low
- P0873 Trans Fluid Press Sensor/Switch C Circuit High
- P0874 Trans Fluid Press Sensor/Switch C CKT Intermittent
- P0875 Trans Fluid Press Sensor/Switch D Circuit
- P0876 Trans Fluid Press Sensor/Switch D CKT Range/Perf
- P0877 Trans Fluid Press Sensor/Switch D Circuit Low
- P0878 Trans Fluid Press Sensor/Switch D Circuit High
- P0879 Trans Fluid Press Sensor/Switch D CKT Intermittent
- P0880 TCM Power Input Signal
- P0881 TCM Power Input Signal Range/Performance
- P0882 TCM Power Input Signal Low
- P0883 TCM Power Input Signal High
- P0884 TCM Power Input Signal CKT Intermittent
- P0885 TCM Power Relay Control Circuit/Open
- P0886 TCM Power Relay Control Circuit Low
- P0887 TCM Power Relay Control Circuit High
- P0888 TCM Power Relay Sense Circuit
- P0889 TCM Power Relay Sense CKT Range/Perf
- P0890 TCM Power Relay Sense Circuit Low
- P0891 TCM Power Relay Sense Circuit High
- P0892 TCM Power Relay Sense CKT Intermittent
- P0893 Multiple Gears Engaged
- P0894 Transmission Comp. Slipping

P0859 Traction Control Input Signal High

P0895 - P0968

P0895 Shift Time Too Short P0896 Shift Time Too Long P0897 Transmission Fluid Deteriorated P0898 Transmission Ctrl. MIL Request Circuit Low P0899 Transmission Ctrl. MIL Request Circuit High P0900 Clutch Actuator Circuit/Open P0901 Clutch Actuator CKT Range/Perf P0902 Clutch Actuator Circuit Low P0903 Clutch Actuator Circuit High P0904 Gate Select Position Circuit P0905 Gate Select Position CKT Range/Perf P0906 Gate Select Position Circuit Low P0907 Gate Select Position Circuit High Gate Select Position CKT Intermittent P0908 Gate Select Control Error P0909 P0910 Gate Select Actuator Circuit/Open P0911 Gate Select Actuator CKT Range/Perf P0912 Gate Select Actuator Circuit Low P0913 Gate Select Actuator Circuit High P0914 Gear Shift Position Circuit P0915 Gear Shift Position CKT Range/Perf P0916 Gear Shift Position Circuit Low P0917 Gear Shift Position Circuit High P0918 Gear Shift Position CKT Intermittent P0919 Gear Shift Position Control Error P0920 Gear Shift Forward Actuator Circuit/Open P0921 Gear Shift Forward Actuator CKT Range/Perf P0922 Gear Shift Forward Actuator Circuit Low P0923 Gear Shift Forward Actuator Circuit High P0924 Gear Shift Reverse Actuator Circuit/Open P0925 Gear Shift Reverse Actuator CKT Range/Perf P0926 Gear Shift Reverse Actuator Circuit Low P0927 Gear Shift Reverse Actuator Circuit High P0928 Gear Shift Lock Solenoid Ctrl Circuit/Open P0929 Gear Shift Lock Solenoid Ctrl CKT Range/Perf Gear Shift Lock Solenoid Ctrl Circuit Low P0930 P0931 Gear Shift Lock Solenoid Ctrl Circuit High

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P0933
        Hydraulic Pressure Sensor CKT Range/Perf
P0934
        Hydraulic Pressure Sensor Circuit Low
P0935
        Hydraulic Pressure Sensor Circuit High
P0936
        Hydraulic Pressure Sensor CKT Intermittent
P0937
        Hydraulic Oil Temp Sensor Circuit
P0938
        Hydraulic Oil Temp Sensor CKT Range/Perf
P0939
        Hydraulic Oil Temp Sensor Circuit Low
P0940
       Hydraulic Oil Temp Sensor Circuit High
P0941
        Hydraulic Oil Temp Sensor CKT Intermittent
P0942
       Hyd. Pressure Unit
P0943
        Hyd. Pressure Unit Unit Cycling Too Short
P0944
        Hyd. Pressure Unit Loss of Pressure
P0945
       Hyd. Pump Relay Circuit Open
P0946
       Hyd. Pump Relay CKT Range/Perf
P0947
        Hyd. Pump Relay Circuit Low
P0948
       Hyd. Pump Relay Circuit High
P0949
       Auto Shift Adaptive Learning Not Complete
P0950 Auto Shift Manual Control Circuit
P0951
       Auto Shift Manual Control CKT Range/Perf
       Auto Shift Manual Control Circuit Low
P0952
P0953
        Auto Shift Manual Control Circuit High
P0954
        Auto Shift Manual Control CKT Intermittent
P0955
       Auto Shift Manual Mode Circuit
P0956
       Auto Shift Manual Mode CKT Range/Perf
P0957
        Auto Shift Manual Mode Circuit Low
P0958
        Auto Shift Manual Mode Circuit High
P0959
       Auto Shift Manual Mode CKT Intermittent
P0960
       Pressure Control Solenoid A Control Circuit/Open
P0961
       Pressure Control Solenoid A Control CKT Range/Perf
P0962
        Pressure Control Solenoid A Control Circuit Low
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P0932 Hydraulic Pressure Sensor Circuit

Pressure Control Solenoid A Control Circuit High P0964 Pressure Control Solenoid B Control Circuit/Open P0965 Pressure Control Solenoid B Control CKT Range/Perf P0966 Pressure Control Solenoid B Control Circuit Low

Pressure Control Solenoid B Control Circuit High

P0968 Pressure Control Solenoid C Control Circuit/Open

P0963

P0967

P0969 - P0998

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P0969
        Pressure Control Solenoid C Control CKT Range/Perf
        Pressure Control Solenoid C Control Circuit Low
P0970
P0971
        Pressure Control Solenoid C Control Circuit High
P0972 Shift Solenoid A Control CKT Range/Perf
P0973
        Shift Solenoid A Control Circuit Low
P0974
       Shift Solenoid A Control Circuit High
P0975
        Shift Solenoid B Control CKT Range/Perf
        Shift Solenoid B Control Circuit Low
P0976
P0977
        Shift Solenoid B Control Circuit High
P0978
        Shift Solenoid C Control CKT Range/Perf
P0979
        Shift Solenoid C Control Circuit Low
P0980
        Shift Solenoid C Control Circuit High
P0981
        Shift Solenoid D Control CKT Range/Perf
P0982
        Shift Solenoid D Control Circuit Low
P0983
        Shift Solenoid D Control Circuit High
        Shift Solenoid E Control CKT Range/Perf
P0984
P0985
        Shift Solenoid E Control Circuit Low
P0986
        Shift Solenoid E Control Circuit High
P0987
       Trans Fluid Press Sensor/Switch E Circuit
P0988
        Trans Fluid Press Sensor/Switch E CKT Range/Perf
        Trans Fluid Press Sensor/Switch E Circuit Low
P0989
P0990
        Trans Fluid Press Sensor/Switch E Circuit High
P0991
        Trans Fluid Press Sensor/Switch E CKT Intermittent
P0992
       Trans Fluid Press Sensor/Switch F Circuit
P0993
       Trans Fluid Press Sensor/Switch F CKT Range/Perf
P0994
        Trans Fluid Press Sensor/Switch F Circuit Low
P0995
       Trans Fluid Press Sensor/Switch F Circuit High
P0996
       Trans Fluid Press Sensor/Switch F CKT Intermittent
P0997
        Shift Solenoid F Control CKT Range/Perf
P0998 Shift Solenoid F Control Circuit Low
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- 4. If possible, return the product in its original package with cables and accessories.
- 5. Print the RMA number and your return address on the outside of the package and send to the address provided by your Customer Service representative.
- You will be responsible for shipping charges in the event that your repair is not covered by warranty.

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